

**Amendments to the Specification:**

Please replace paragraph [0047] with the following rewritten paragraph:

[0047] FIGS. 1, 2 and 3 show a first example of the configuration of an RF module according to an embodiment of the invention. FIG. 1 corresponds to a section taken along line A-A of FIGS. 2 and 3. In FIG. 3, for simplicity of the drawing, the thickness of the uppermost layer is omitted and the uppermost layer is hatched. The RF module has a structure of conversion between the TEM mode and another mode and can be used for, for example, a transmission line for RF signals, a filter, and the like. The RF module has a waveguide 10 (Fig. 1) capable of propagating electromagnetic waves in the TEM mode (hereinbelow, called a TEM waveguide) and a multilayer-structured waveguide 20 (Figs. 2 and 3 ~~Figs. 1 and 2~~) which is connected to the TEM waveguide 10 and propagates electromagnetic waves in a mode different from the TEM mode. In the configuration example, the TEM waveguide 10 corresponds to a concrete example of a "first waveguide" in the invention, and the waveguide 20 corresponds to a concrete example of a "second waveguide" in the invention.

Please replace paragraph [0048] with the following rewritten paragraph:

[0048] The waveguide 20 has ground electrodes 21 and 23 which face each other while sandwiching a dielectric substrate 12 (Figs. 2 and 3 ~~Figs. 1 and 2~~) and a plurality of through holes 22 as conductors for bringing the ground electrodes 21 and 23 into conduction. In the waveguide 20, electromagnetic waves propagate, for example, in an S direction in the diagram in a region surrounded by the ground electrodes 21 and 23 and the through holes 22. The waveguide 20 may have a configuration of a dielectric waveguide in which the electromagnetic wave propagation region is filled with a dielectric or a configuration of a cavity waveguide having therein a cavity. The through holes 22 are provided at intervals of a certain value or less (for example, 1/4 of a signal wavelength or less) so that the propagating

electromagnetic waves are not leaked. The inner face of the through hole 22 is metalized.

The sectional shape of the through hole 22 is not limited to a circular shape but may be another shape such as a polygon shape or an oval shape.